### PATENT APPLICATION

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Tasuku HONJO et al.

Appln. No.: 09/674,379

Confirmation No.: Not Yet Assigned

Filed: October 30, 2000

For: A NOVEL POLYPEPTIDE, A cDNA ENCODING THE POLYPEPTIDE AND

UTILIZATION THEREOF

STATEMENT OF ADDED INVENTORS
UNDER 37 C.F.R. § 1.497(d) FOR CORRECTING INVENTORSHIP

BOX PCT Commissioner for Patents

Washington, D.C. 20231

Sir:

Each of the below-named persons is being added as a named inventor on the above-identified application, which is the U.S. national stage application based on International Application No. PCT/JP99/02284. None of us was identified as an inventor on International Application No. PCT/JP99/02284. Each of us hereby declares that the failure to name each of us, respectively, as an inventor on PCT/JP99/02284, was an error and that the error occurred without deceptive intention on our part.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful statements and the like so made are punishable by fine or imprisonment or both under 18 USC §1001, and may jeopardize the validity of the application or any patent issuing thereon.

Date:	11/27/01	El Lerneth facols	)
	/	s/Kenneth Jacobs	
Date:			)
Date:	11/27/01	s/John M. McCoy  Lisa A. Collins-Racie	j

Date:	11/27/01 X Slevard R. LaVallie	<u> </u>
Date:	<i>▶</i> (	)
ſ	s/Maurice Treacy	)
Date:	<b>D</b> (	
Date:	11/28/01 p Mahall Gat	)
Date:	s/Michael J. Agostino () 11/27/2001 & Zlujimo Lu	)
Date:	s/Zhihian Lu S/David Merberg	

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Date:	6	
Date:	s/Kenneth Jacobs	)
Date:	s/John M. McCby	
	s/Lisa A. Collins-Racie	· · · · · · · · · · · · · · · · · · ·

Date:	$\bowtie$ (	)
(	s/Edward R. LaVallie	
Date:	$\wp$	)
,	s/Maurice Treacy	\
Date:	D(	
	s/Chery) Evans	`
Date:	N/	)
	s/Michael J. Agostino	\
Date:	6	· )
_	s/Zhihian Lu	
Date:		
	s/David Merberg	

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Date:	6	
·	s/Kenneth Jacobs	 <del>'</del> _
Date:		)
	s/John M. McCoy	 . 1
Date:	<u></u>	1
	s/Lisa A. Collins-Racie	

Date:		
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	s/Michael J. Agostino	1
Date:	<u> </u>	· /
	s/Zhihian Lu	
Date:	<i>b</i>	J
	s/David Merberg	

SOLE/JOINT 1,2,39 12

I/We as below named inventors, I/We hereby declare that our residence, mailing addresses and citizenship are as stated below next to

my name: that verily bel (if plural names are listed	ieve I/We are the original, inventors below) of the subject matter claimed	(if only one name is listed to d and for which a patent is so	pelow) or an original, first a ought in the application enti	and joint inventor tled:
A NOVEL F Which application is:   The attached application is attached application.	OLYPICATION OPTICATION	NG THE POLYPEPTIDE AI ☑ Appli	ND UTILIZATION THERI	EOF
(for original application)	JAN 2 5 2002	filed Octo PCT/JP99	ober 30, 2000 as the U.S. na 9/02284, filed April 28, 199	itional stage of
	JAN 2 5 ZUIZ			
amended by any amendm material to the patentabili States Code §119(a)-(d) provisional application(s) States of America, listed	understand the contents of the speent referred to above; that I acknow ty of this application as defined in 3 or §365(b) of any foreign application, or §365(a) of any PCT International below and have also identified belotion having a filing date before that of	ecification of the above-ider dedge my duty to disclose in 7 C.F.R. 1.56, that I hereby con(s) for patent or inventor displication which designates we any foreign application for	formation of which I am aw laim priority benefits under 's certificate, §119(e) of a ed at least one country othe for patent or inventor's certificative is claimed:	ng the claims, as ware and which is a Title 35, United my United States or than the United tificate or of any
Application Number	Country	Filing Date	Priority Clair Yes	med No
Hei. 10-119731	Japanese	April 28, 1998	Ø	
International application of application is not disclost paragraph of Title 35, Un	enefit under 35 United States Coodesignating the United States, listed ed in a listed prior United States ited States Code, §112, I acknowled in 37 C.F.R. 1.56 which occurred this application:	l below and, insofar as the so or PCT International applicable my duty to disclose any	subject matter of each of the ation in the manner provisinformation material to the	he claims of this ided by the first patentability of
Application !	Ño.	Filing Date	Status	
Darryl Mexic, Reg. No. 2. Waddell A. Biggart, Reg. 28,703; John R. Inge, Re Turner, Reg. No. 29,710; 31,333; Gordon Kit, Reg. 32,197; William H. Mano Kramer, Reg. No. 33,725; George F. Lehnigk, Reg. Reg. No. 38,551 and Edw the Patent and Trademark	H. Mion, Reg. No. 18,879; Thom 3,063; Robert V. Sloan, Reg. No. 22 No. 24,861; Louis Gubinsky, Reg. No. 26,916; Joseph J. Ruch, Jr., Howard L. Bernstein, Reg. No. 25, No. 30,764; Susan J. Mack, Reg. No. 17, Reg. No. 32,156; Brian W. Han Paul F. Neils, Reg. No. 33,102; Bre. No. 36,359, John T. Callahan, Reg. No. 36,359, John T. Callahan, Reg. To. 28,962, rec. Office connected therewith, and NN, MACPEAK & SEAS, PLL	,775; Peter D. Olexy, Reg. No. 24,835; Neil B. Siegel, R Reg. No. 26,577; Sheldon 665; Alan J. Kasper, Reg. No. 30,951; Frank L. Bernsteinnon, Reg. No. 32,778; Abraett S. Sylvester, Reg. No. 32,007, Steven M. Gruny attorneys to prosecute thirequest that all corresponde	lo. 24,513; J. Frank Osha, Feg. No. 25,200; David J. Coll. Landsman, Reg. No. 25, No. 25, No. 25, Kenneth J. Burn, Reg. No. 31,484; Mark Eham J. Rosner, Reg. No. 3,765; Robert M. Masters, Fiskin, Reg. No. 36,818, Pet application and to transaction about the application	Reg. No. 24,625; ushing, Reg. No. 430; Richard C. rchfiel, Reg. No. 30land, Reg. No. 33,276; Bruce E. Reg. No. 35,603, ter A. McKenna, ct all business in be addressed to
belief are believed to be tr so made are punishable b	all statements made herein of my ovue; and further that these statements y fine or imprisonment, or both, ur y jeopardize the validity of the appli	were made with the knowled ider Section 1001 of Title 1	lge that willful false statem 8 of the United States Coo	ents and the like
Date	First	Inventor <u>Tasuku</u>	HON	
Residence <u>Kyoto</u> City	Japan JPX State/Country	First Name Signature	Middle Initial Last N	lame
Mailing Address:	19-4, Ohsagi-cho, Iwakura, Sakyo	-ku, Kyoto-shi, KYOTO 606	-0001 JAPAN	
Citizenship Japanese			,	

Japanese

		. 70	Second Inventor	Kei First Name	Middle Initial	TASHIRO Last Name
lesidence	<u>Kyoto</u> City	Japan OP State/Country	Signatu	re <u>Fei</u>	tastrino	-
failing Add	ress:	93, Higashiolano-cho, Koya	ma, Kita-ku, Kyoto-	shi, KYOTO 603	3-8162 JAPAN	
Citizenship	Japanese	JAN 2 5 2002				
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Date			Fourth Inventor			JACOBS
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Mailing Addi	•	151 Beaumont Avenue, Rea	ding, MA 01867			
Citizenship					<del></del>	
			Fifth Inventor	John M.		N.C.
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late			Sixth Inventor	Lisa A. First Name	Middle Initial	Collins-Racie  Last Name
Date	Acton, MA	U.S.A. State/Country	Signatur	e		

			Seventh I	nventor	Edward R.		LaVallie
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			Ninth Inve	entor	Cheryl		Evans
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			Tenth Inve	ntor	Michael J.		Agostino
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			Eleventh		Zhijian		Lu
			Inventor				
Dadford V	1 A	II C A		e \	First Name	Middle Initial	Last Name
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ess:	120 Old B	urlington Road, B	edford, MA	01730	**		
	City  ress:  U.S.  Dun County of City  ress:  IRELAN  Germantov City  ress:  United Ki  Andover, N City  ress:  U.S.  Bedford, M City	Dun Laoghaire, County of Dublin City  Ess: 38 Claring  IRELAND  Germantown, MD City  ess: 19326 Go  United Kingdom  Andover, MA City  Ess: 26 Wolcot  U.S.  Bedford, MA City	City State/Country  PESS: 113 Ann Lee Road, Harvar  O PE  U.S. 13 Ann Lee Road, Harvar  O PE  U.S. 13 Ann Lee Road, Harvar  O PE  U.S. 14 PE  Dun Laoghaire, IRELAND  County of Dublin  City State/Country  ess: 38 Clarinda Park East, Dun  IRELAND  Germantown, MD U.S.A.  City State/Country  ess: 19326 Golden Meadow Driv  United Kingdom  Andover, MA U.S.A.  City State/Country  ess: 26 Wolcott Avenue, Andove  U.S.  Bedford, MA U.S.A.  City State/Country  State/Country	Harvard, MA City State/Country  ress:  113 Ann Lee Road, Harvard, MA 014  115 Ann Lee Road, Harvard, MA 014  116 PE  U.S.  Langhare, IRELAND Country of Dublin City State/Country  ress:  38 Clarinda Park East, Dun Laoghaire, IRELAND  Ninth Inventor  Germantown, MD U.S.A. City State/Country  ress:  19326 Golden Meadow Drive, Germant  United Kingdom  Tenth Inventor  Andover, MA U.S.A. City State/Country  ress:  26 Wolcott Avenue, Andover, MA 018  U.S.  Eleventh Inventor  Bedford, MA U.S.A. City State/Country	City State/Country  Eess: 113 Ann Lee Road, Harvard, MA 01452  U.S. Eighth Inventor  Dun Laoghaire, IRELAND Signate Country of Dublin  City State/Country  Eighth Inventor  Ninth Inventor  Germantown, MD U.S.A. Signate City State/Country  Ess: 19326 Golden Meadow Drive, Germantown, M. M. U.S.A. Signate City State/Country  United Kingdom  Tenth Inventor  Andover, MA U.S.A. Signate City State/Country  Ess: 26 Wolcott Avenue, Andover, MA 01810  U.S. Eleventh Inventor  Bedford, MA U.S.A. Signate City State/Country  Eleventh Inventor  Bedford, MA U.S.A. Signate City State/Country  Bedford, MA U.S.A. Signate City State/Country	Harvard, MA  City  State/Country  Tess:  113 Ann Lee Road, Harvard, MA 01452  Los Eighth Inventor Maurice First Name  County of Dublin  City  State/Country  Signature  County of Dublin  City  State/Country  Ninth Inventor Cheryl First Name  Germantown, MD  U.S.A.  Signature  City  State/Country  Tenth Inventor  Michael J. First Name  Signature  City  State/Country  Signature  City  State/Country  Ess:  19326 Golden Meadow Drive, Germantown, MD  20876  United Kingdom  Tenth Inventor  Michael J. First Name  Signature  Andover, MA  U.S.A.  Signature  Los Signature  Signature  Andover, MA  U.S.A.  Signature  Signature  Signature  Signature  Andover, MA  U.S.A.  Signature  Signa	Harvard, MA  City  State/Country  Eighth Inventor  Maurice First Name  Middle Initial  Laoghaire, IRELAND City  State/Country  Eighth Inventor  Maurice First Name  Middle Initial  Signature  County of Dublin City  State/Country  Eighth Inventor  Maurice First Name  Middle Initial  Signature  County Dublin, IRELAND  IRELAND  IRELAND  Ninth Inventor  Germantown, MD  U.S.A.  Signature  City  State/Country  Eighth Inventor  First Name  Middle Initial  Middle Initial  First Name  Middle Initial  Middle Initial  First Name  Middle Initial  First Name  Middle Initial  Middle Initial  First Name  Middle Initial  Signature  Location  Tenth Inventor  Andover, MA  U.S.A.  Signature  Location  Tenth Inventor  Michael J. First Name  Middle Initial  Middle Initial  First Name  Middle Initial  First Name  Middle Initial  First Name  Middle Initial  Signature  Location  Location  Signature  Location  Andover, MA  U.S.A.  Signature  Location  Signature  Signature  Andover, MA  U.S.A.  Signature  Location  Signature  Signature  Middle Initial  First Name  Middle Initial  First Name  Middle Initial  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Middle Initial  Signature  Signature  Signature  Signature  Middle Initial  Signature  Signature  Signature  Signature  Signature  Middle Initial  Signature  Signature  Signature  Signature  Signature  Signature  Middle Initial  Signature  Middle Initial  Signature  Signature

### SOLE/JOINT

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## **DECLARATION AND POWER OF ATTORNEY**

I/We as below named inventors, I/We hereby declare that our residence, mailing addresses and citizenship are as stated below next to my name: that verily believe I/We are the original, inventors (if only one name is listed below) or an original first and joint inventors.

my name: that verily believe I/We are the original, inventors (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled: CDNA ENCODING THE POLYPEPTIDE AND UTILIZATION THEREOF Which application is: ☐ The attached application 2 ☑ Application No. 09/674,379 (for original application) filed October 30, 2000 as the U.S. national stage of PCT/JP99/02284, filed April 28, 1999 (for declaration not accompanying application) I/We have reviewed and understand the contents of the specification of the above-identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware and which is material to the patentability of this application as defined in 37 C.F.R. 1.56, that I hereby claim priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, §119(e) of any United States provisional application(s), or §365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT International application having a filing date before that of the application on which priority is claimed: **Priority Claimed** Application Number Country Filing Date Yes No Hei. 10-119731 Japanese April 28, 1998 ☑ I/We hereby claim the benefit under 35 United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any information material to the patentability of this application as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application: Application No. Filing Date Status I/We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603, George F. Lehnigk, Reg. No. 36,359, John T. Callahan, Reg. No. 32,607, Steven M. Gruskin, Reg. No. 36,818, Peter A. McKenna, Reg. No. 38,551 and Edward F. Kenehan, Reg. No. 28,962, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213. I/We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon. Date HONJO Middle Initial First Name Last Name Residence Kyoto City Mailing Address: 19-4, Ohsagi-cho, Iwakura, Sakyo-ku, Kyoto-shi, KYOTO 606-0001 JAPAN Citizenship Japanese

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Mailing Add	ress:	93, Higashioh	mo-cho, Koya	ma, Kita-ku, Kyo	o-shi, I	CYOTO 60	3-8162 JAPAN	
Citizenship	Japanese	JAH 2 5	2002					
Date		RIDE	A PER CEEP	Third Inventor	Tor	noyuki Name	ACHI (CC)	NAKAMURA
Residence	San Diego, City	California U	J.S.A. tate/Country	Signa		Jon	Middle Initial	Last Name
Mailing Addr	ress:	7665, Palmira	Dr., #5324, S	an Diego, CA				
Citizenship	Japanese							
Date				Fourth Inventor				JACOBS
Residence	Reading, M		.S.A.	Signa		Name	Middle Initial  Left facility	Last Name
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Mailing Addr			No. t Avenue, Rea	ding, MA 01867	skl	MA	<b>,</b>	
_			t Avenue, Rea	ding, MA <del>01867</del>	s KJ	MA		
Citizenship	ress:		t Avenue, Rea	ding, MA 01867	×)John			McCoy
Mailing Addr Citizenship  Date  Residence	ress:	151 Beaumon	t Avenue, Rea	ding, MA 01867	John First		Middle Initial	McCoy Last Name
Citizenship Date	U.S.  Reading, M City	151 Beaumon	S.A	Fifth Inventor Signa	John First	n M.	Middle Initial	
Citizenship  Date  Residence	U.S.  Reading, M City	151 Beaumon	S.A	Fifth Inventor Signa	John First	n M.	Middle Initial	
Citizenship  Date  Residence  Mailing Addre	L.S.  Reading, M City  ess:	151 Beaumon	S.A	Fifth Inventor Signa	John First ture	1 M. Name	Middle Initial	Last Name  Collins-Racie
Citizenship  Date  Residence  Mailing Addre	L.S.  Reading, M City  ess:	151 Beaumon  IA U St  56 Howard Str	S.A	Fifth Inventor Signa MA 01867	∑John First y ture \_ 	1 M. Name	Middle Initial  Middle Initial  A - Colley	Last Name

U.S.

Date		Twelf	th Inventor David		Merberg	
Residence	Acton, MA	U.S.A.	First Name Signature	Middle Initial	Last Name	
	City	State/Country	_ /			
Mailing Addre	ess:	2 Orchard Drive, Acton, MA 0172	0	1		
	-					
Citizenship	U.S.					

# **DECLARATION AND POWER OF ATTORNEY**

I/We as below named inventors, I/We hereby declare that our residence, mailing addresses and citizenship are as stated below next to my name: that verily believe I/We are the original; inventors (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

(if plural names are listed	below) of the subject matter of	laimed and for which	ch a patent is sou	ght in the application	n entitled:
A NOVEL F	OLYPEPTIDE POPNA EN	CODING THE POL	YPEPTIDE ANI	O UTILIZATION T	HEREOF
Which application is:					
(for original application)	opincation 50			tion No. <u>09/674,3</u>	S. national stage of
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	JAN 2 3 2002				
I/Wa have reviewed and	understand the Officents of t	L	(for declara	tion not accompany	ing application)
amended by any amendm	ent referred to above; that I a	ne specification of	the above-identi	fied application, incommendation of which I	cluding the claims, as
material to the patentabili	ty of this application as define	d in 37 C.F.R. 1.56	that I hereby cla	im priority benefits	under Title 35, United
States Code §119(a)-(d)	or §365(b) of any foreign ap	plication(s) for pate	ent or inventor's	certificate, §119(e)	of any United States
provisional application(s)	or §365(a) of any PCT Internation	ational application	which designated	at least one country	other than the United
PCT International applica	below and have also identified tion having a filing date before	that of the applica	in application for	rity is claimed:	s certificate or of any
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Application Number	Country	Fili	ng Date	Yes	No
Hei. 10-119731	Japanese	Apri	1 28, 1998		
International application of application is not disclost paragraph of Title 35, Un	penefit under 35 United States, designating the United States, and in a listed prior United States ted States Code, §112, I ack in 37 C.F.R. 1.56 which occording application:	listed below and, States or PCT Inter nowledge my duty i	insofar as the sui national applicat to disclose any in	oject matter of each ion in the manner aformation material	of the claims of this provided by the first to the patentability of
Application :	Ńo.	Filing Date		Status	•
Darryl Mexic, Reg. No. 2: Waddell A. Biggart, Reg. 28,703; John R. Inge, Re Turner, Reg. No. 29,710; 31,333; Gordon Kit, Reg. 32,197; William H. Mano Kramer, Reg. No. 33,725; George F. Lehnigk, Reg. Reg. No. 38,551 and Edwhe Patent and Trademark SUGHRUE, MION, ZI We hereby declare that a belief are believed to be tr	H. Mion, Reg. No. 18,879; 3,063; Robert V. Sloan, Reg. 1 No. 24,861; Louis Gubinsky, g. No. 26,916; Joseph J. Ruc Howard L. Bernstein, Reg. No. 30,764; Susan J. Mack, R lir, Reg. No. 32,156; Brian W. Paul F. Neils, Reg. No. 33,10 No. 36,359, John T. Callahan ard F. Kenehan, Reg. No. 28, c Office connected therewith NN, MACPEAK & SEAS, all statements made herein of ue; and further that these state	No. 22,775; Peter D Reg. No. 24,835; N h, Jr., Reg. No. 26 No. 25,665; Alan J. eg. No. 30,951; Fra Y. Hannon, Reg. No. 22; Brett S. Sylveste Reg. No. 32,607, 962, my attorneys to and request that a PLLC, 2100 Penn my own knowledge ments were made w	Olexy, Reg. No eil B. Siegel, Reg. 577; Sheldon I. Kasper, Reg. No nk L. Bernstein, 23,778; Abrahar, Reg. No. 32,76 Steven M. Grusk o prosecute this all correspondence sylvania Avenue are true and tha ith the knowledg	24,513; J. Frank O 2. No. 25,200; David Landsman, Reg. No. 25,426; Kenneth J. Reg. No. 31,484; M. am J. Rosner, Reg. 55; Robert M. Massin, Reg. No. 36,818 application and to the te about the application. N.W., Washington t all statements made that willful false s	sha, Reg. No. 24,625; d.J. Cushing, Reg. No. 5. 25,430; Richard C. J. Burchfiel, Reg. No. Iark Boland, Reg. No. No. 33,276; Bruce E. ters, Reg. No. 35,603, B, Peter A. McKenna, ransact all business in ation be addressed to p. D.C. 20037-3213. The on information and tatements and the like
so made are punishable b	y fine or imprisonment, or be ny jeopardize the validity of th	oth, under Section	1001 of Title 18	of the United State ereon.	s Code and that such
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Citizenship Japanese					

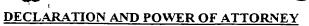
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				_ Second Inventor	First Name		Middle Initial	TASHIRO Last Name
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residence	City			Signat	.ure — 7	rei.	tastrino	<u> </u>
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Date				Third Inventor	Tomoyu		<del></del>	NAKAMURA
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Citizenship	Japanese							
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Date		•		Fourth Inventor	() Kenneth			JACOBS
					First Name		Middle Initial	Last Name
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Citizenship	U.S.							
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			<del></del>	Fifth Inventor	<u> John M.</u>	<del>/</del> /\\		_McCoy
D: -1 -	D 11		****	;	First Name	/ / X	Middle Initial	Last Name
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Citizenship	U.K.							
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Date				Sixth Inventor $\lambda$	<b>2</b> Lisa A.			Collins-Racie
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			·	_ Eignai mvena	-	First Name	Middle Initial	Treacy  Last Name
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Citizenship	U.S.	_						
Date				Eleventh		Zhijian		Lu
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N.C. 111								
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Date	<del></del>		Twelfth Inventor	_David		Merberg	
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I/We as below named inventors, I/We hereby declare that our residence, mailing addresses and citizenship are as stated below next to my name: that verily believe I/We are the original, inventors (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

(if plural names are listed b	pelow) of the subject matter cl	laimed and for which	h a patent is sought	t in the application er	ntitled:
A NOVEL PO Which application is:  The attached app	OLYPEPTIDE A DNA ENC	ODING THE POL		UTILIZATION THE	REOF
(for original application)	IAU 25 mm		filed October	30, 2000 as the U.S.	
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amended by any amendme	anderstand to above; that I ac	knowledge my duty	to disclose inform	ation of which I am	aware and which is
States Code §119(a)-(d) o provisional application(s), States of America, listed b	r §365(b) of any foreign appor §365(a) of any PCT Internatelow and have also identified on having a filing date before	plication(s) for pate ational application w d below any foreign	nt or inventor's ce which designated at a application for p	ertificate, §119(e) of t least one country of eatent or inventor's co	any United States her than the United
Application Number	Country	Filin	g Date	Priority CI Yes	aimed No
Hei. 10-119731	Japanese		28, 1998		
application is not disclose paragraph of Title 35, Unit this application as defined international filing date of t	• •	tates or PCT International Internation	national application o disclose any info	n in the manner pro rmation material to t ior application and th	wided by the first
Application No	<b>t•</b>	Filing Date	•	Status	
Darryl Mexic, Reg. No. 23, Waddell A. Biggart, Reg. No. 28,703; John R. Inge, Reg. Turner, Reg. No. 29,710; F. 31,333; Gordon Kit, Reg. No. 32,197; William H. Mandin Kramer, Reg. No. 33,725; F. George F. Lehnigk, Reg. No. 38,551 and Edwarthe Patent and Trademark SUGHRUE, MION, ZIN	H. Mion, Reg. No. 18,879; 7063; Robert V. Sloan, Reg. No. 24,861; Louis Gubinsky, F. No. 26,916; Joseph J. Ruch Howard L. Bernstein, Reg. No. 30,764; Susan J. Mack, Reg. No. 32,156; Brian W. Paul F. Neils, Reg. No. 33,100 to. 36,359, John T. Callahan, rd F. Kenehan, Reg. No. 28,9 Office connected therewith, NN, MACPEAK & SEAS,	No. 22,775; Peter D. Reg. No. 24,835; Ne n. Jr., Reg. No. 26,5 o. 25,665; Alan J. Reg. No. 30,951; Frar Hannon, Reg. No. 2; Brett S. Sylvester Reg. No. 32,607, Sep. Mo. 32,607,	Olexy, Reg. No. 2d and B. Siegel, Reg. No. 2d Asper, Reg. No. 2d asper, Reg. No. 2d asper, Reg. No. 2d asper, Reg. No. 32,778; Abraham asper, Reg. No. 32,765; Steven M. Gruskin, asprosecute this application of the correspondence of the state of the sta	4,513; J. Frank Osha No. 25,200; David J. andsman, Reg. No. 2 25,426; Kenneth J. B gg. No. 31,484; Mark J. Rosner, Reg. No. Robert M. Masters Reg. No. 36,818, P plication and to trans about the application J.W., Washington, D.	, Reg. No. 24,625; Cushing, Reg. No. 5,430; Richard C. urchfiel, Reg. No. Boland, Reg. No. 33,276; Bruce E., Reg. No. 35,603, leter A. McKenna, fact all business in the addressed to C. 20037-3213.
so made are punishable by	I statements made herein of re; and further that these staten fine or imprisonment, or boy jeopardize the validity of the	ments were made with, under Section 10	th the knowledge ti 001 of Title 18 of	hat willful false state the United States C	ments and the like
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Citizenship Japanese				· <del></del>	<del></del>

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Ďate				Second Inven		ei		TASHIRO
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36.32			-	•••				
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Citizenship	Japanese						•	•
Date				Third Inventor	· т	omoyuki		NAKAMURA
						rst Name	Middle Initial	Last Name
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Citizenship	Io							
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Date				Fourth Invento		enneth st Name	Middle Initial	JACOBS
Residence	Reading, N	1A U.S.A	·-	Sig	nature		ivilddie initial	Last Name
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Mailing Addi	-ess.	151 Beaumont Av	enue Read	ing MA 0186	. <del>7</del>			
	.000.	131 Beddinont 114	ende, Read	ing, WA 0160	''			
Citizenship	U.S.	11-11-11						
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Date				Fifth Inventor	$\chi_{J_0}$	hn M.		McCoy
							Middle Initial	Last Name
Residence	Reading, M City		Country	Sig	nature		-	<del></del>
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Citizenship	<u>U.K.</u>							
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Date				Sixth Inventor	Lis E	sa A.	Adda to the	Collins-Racie
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Date				Carranth Incomes	- Ed		
				_ Seventh Invento	First Name	Middle Initial	LaVallie
Residence	Harvard,	ΜΔ	U.S.A	Sime	<b>~</b>	Middle minal	Last Name
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maning maa	1033.		Lee Road, Haiva	14, 1721 01432	<del></del>		
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Citizenship	_U.S						
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Date, Pera	mber a	2 200	J	Ciohth I	Marania		<b>-</b>
Date PC	MHEL ()	31000		_ Eighth Inventor	Maurice First Name	Middle Initial	Treacy  Last Name
Residence	Dun	Laoghaire	_ IRELAND	IK Signa	<b>A</b>	Middle Miliai	Last Name
Residence	County of	Laughane,	_ INCLAND .	Julia Signa		le u & Vaca	
	City	Duomi	State/Country		/ <del>1</del>	uni Sex	<i>Y</i>
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Citizenship	IRELAN	<u>D</u>			-		
Date				NU ALT	C1 1		_
Date		7		_ Ninth Inventor	Cheryl First Name	141111111111111111111111111111111111111	Evans
Residence	Germanto	um MD	U.S.A.	Ciana	· ·	Middle Initial	Last Name
Residence	City	WII, IVID	State/Country	Signa			
	City		State/Country				
Mailing Addr	ess.	19326 Go	lden Meadow Dr	ive, Germantown, I	ATD 20876		
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C::: 1:	**						
Citizenship	United K	ingdom					
Date				TD at X	16.1.1.		
Date			·	_ Tenth Inventor	Michael J. First Name	Middle Initial	Agostino
Residence	Andover,	M A	U.S.A.	Ci		Middle Initial	Last Name
residence	City	VIA	State/Country	Signa	.ure.	<del></del>	
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Citizenship	_U.S.			·····			· · · · · · · · · · · · · · · · · · ·
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Date				Eleventh	Zhijian		Lu
				Inventor	First No.	\$ # 1 P P P 1 1 1 P	
Residence	Bedford, N	ЛA	U.S.A.	o:	First Name	Middle Initial	Last Name
Nesidelice	City	1A		Signat	уте		
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uning Audi	css.	120 Old B	minigion Road, i	Jediola, IMA 01/3	<i></i>		

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Citizenship	U.S.				· · · · · · · · · · · · · · · · · · ·	

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# **DECLARATION AND POWER OF ATTORNEY**

SOLE/JOINT

I/We as below named inventors, I/We hereby declare that our residence, mailing addresses and citizenship are as stated below next to my name: that verily believe I/We are the original, inventors (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

		and the wine			
A NOVEL POI Which application is:	YPEPTILO, WELLA ENC	CODING THE POL	YPEPTIDE ANI	O UTILIZATION T	HEREOF
The attached appli	cation JAN 2 5 2002		☑ Applica	tion No. 09/674,3	370
(for original application)	JAN 2 5 2002				J.S. national stage of
	THE STATE OF THE S		PCT/JP99/0	02284, filed April 2	8, 1999
material to the patentability of States Code §119(a)-(d) or	referred to above; that I ac of this application as defined §365(b) of any foreign app	knowledge my duty d in 37 C.F.R. 1.56, plication(s) for pate	the above-identify to disclose inforthat I hereby class that I not inventor's	rmation of which I a im priority benefits certificate. §119(e)	cluding the claims, as am aware and which is under Title 35, United to of any United States
provisional application(s), or States of America, listed bel PCT International application	§365(a) of any PCT Internation and have also identifie	ational application v d below any foreign	vhich designated n application for	at least one country	v other than the United
·	8		•		ty Claimed
Application Number	Country	Filin	ng Date	Yes	No
Hei. 10-119731	Japanese	April	28, 1998	☑	
I/We hereby claim the bene International application desi application is not disclosed paragraph of Title 35, United this application as defined in international filing date of thi	ignating the United States, in a listed prior United S I States Code, §112, I ackn 37 C.F.R. 1.56 which occu	listed below and, in tates or PCT International total to the contract of the c	nsofar as the sub national applicat o disclose any in	oject matter of each ion in the manner formation material	n of the claims of this provided by the first to the patentability of
Application No.	•	Filing Date		Status	,
We hereby appoint John H. Darryl Mexic, Reg. No. 23,06 Waddell A. Biggart, Reg. No. 28,703; John R. Inge, Reg. No. 28,703; John R. Inge, Reg. No. 31,333; Gordon Kit, Reg. No. 32,197; William H. Mandir, Kramer, Reg. No. 33,725; Par George F. Lehnigk, Reg. No. Reg. No. 38,551 and Edward he Patent and Trademark OBUGHRUE, MION, ZINN / We hereby declare that all spelief are believed to be true; so made are punishable by fivillful false statements may je	53; Robert V. Sloan, Reg. N. 24,861; Louis Gubinsky, F. No. 26,916; Joseph J. Ruchward L. Bernstein, Reg. No. 30,764; Susan J. Mack, Reg. No. 32,156; Brian Wul F. Neils, Reg. No. 33,1036,359, John T. Callahan, F. Kenehan, Reg. No. 28,9 ffice connected therewith, J. MACPEAK & SEAS, statements made herein of rand further that these statement or imprisonment, or bo	No. 22,775; Peter D. Reg. No. 24,835; Ne n. Jr., Reg. No. 26,5 o. 25,665; Alan J. Feg. No. 30,951; Frant Hannon, Reg. No. 2; Brett S. Sylvester Reg. No. 32,607, Sep. Mo. 32,607	Olexy, Reg. No. eil B. Siegel, Reg. 577; Sheldon I. Kasper, Reg. No. hk L. Bernstein, I. 32,778; Abraha r. Reg. No. 32,76 Steven M. Grusk o prosecute this all correspondence sylvania Avenue, are true and that the knowledge 001 of Title 18 of the service of the	24,513; J. Frank O Landsman, Reg. No. 25,426; Kenneth J. Reg. No. 31,484; M. m J. Rosner, Reg. 55; Robert M. Massin, Reg. No. 36,818 application and to the e about the application of the about the application and to the e about the application of the united State	Isha, Reg. No. 24,625; d J. Cushing, Reg. No. 0. 25,430; Richard C. J. Burchfiel, Reg. No. 1 Stark Boland, Reg. No. 33,276; Bruce E. 1 Stark, Reg. No. 35,603, 8, Peter A. McKenna, ransact all business in action be addressed to 1, D.C. 20037-3213. The on information and tatements and the like
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Citizenship Japanese					

Date 3			_ Second Inventor	Kei First Name	<del></del>	TASHIRO
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	City	State/Country			ovo vene	<u></u>
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Mailing Add	ress:	93, Higashiohno-cho, Koya	ama, Kita-ku, Kyoto	-shi, KYOTO 603	3-8162 JAPAN	
Citizenship	Iononece				•	
Chizenship	Japanese					
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Citizenship	Japanese		·			
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Date			Fourth Inventor	7 Kenneth		JACOBS
				First Name	Middle Initial	Last Name
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Citizenship	U.S.					
Date			F101 F . V	0		
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	City	State/Country				
Mailia - A 11		5611 16 5	<b></b>	•		
Mailing Addr	ess:	56 Howard Street, Reading,	MA 01867			
	-					·
Citizenship	11 12					•
•	U.K.			···		
·····						
Date			Sixth Inventor $\lambda$	<b>7</b> Lisa A.		Collins-Racie
D ' d				First Name	Middle Initial	Last Name
Residence	Acton, MA City		Signatu	re		
	City	State/Country				
Mailing Addr	ess:	124 School Street, Acton, M	IA 01720			
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	-	· · · · · · · · · · · · · · · · · · ·				
Citizenship	U.S.					

· · · · · ·				Seventh Inventor	First Name	Middle Initial	LaVallie Last Name
Residence	Harvard, I	MA	U.S.A State/Country	Signat	uře		
	•		•				
Mailing Add	ress:	113 Ann 1	Lee Road, Harvar	d, MA 01452	· . · · · · · · · · · · · · · · · · · ·		
		···			····		·
Citizenship	U.S.			<del></del>			
Date				Eighth Inventor	Maurice		Treacy
-					First Name	Middle Initial	Last Name
Residence	Dun County of	Laoghaire, Dublin	IRELAND	Signat	ure		
	City		State/Country	/			
Mailing Addr	·ecc·	28 Classics	la Dark East De-	Lagabaira Causta	Duklin IDDI ANI	D	
Maining Addi	C33.	<u> зо стапис</u>	ia raik Easi, Dun	Laoghaire, County	Dublin, IKELAN	ע	
Citizenship	IRELAN	D					
Dan()	11/29/01			Ninth In	Chamil		<b>-</b>
	11/2/101			Ninth Inventor	Cheryl First Name	. Middle Initial	Evans Last Name
Residence	Germanto	wn, MD //	P <sub>U.S.A.</sub>	Signati	. / • 1) 1	Kerner	2ast 1 and
	City		State/Country				
Mailing Addr	ess:	19326 Gol	den Meadow Dri	ve, Germantown, M	TD 20876		
J				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		······································	
Citizenship	United Ki	ingdom					
Date				Tenth Inventor	Michael J.		Agostino
		·			First Name	Middle Initial	Last Name
Residence	Andover, N	MA	U.S.A. State/Country	Signati	11/2/		
	City		State/Country		•		
Mailing Addre	ess:	26 Wolcot	t Avenue, Andove	er, MA 01810			
Citizenship	U.S.				•		
Jumenamp	_0.5.						
Date				Eleventh	Zhijian		Lu
	<del></del>			Inventor	First Name	Middle Initial	Last Yasa
	Bedford, M	1A	U.S.A.	Signaty	re iscivaine	ivitadie initial	Last Name
Residence							
Residence	City		State/Country	/			

Date 🚁			Twelfth Inve			Merberg
Residence	Acton, MA		S	First Name	Middle Initial	Last Name
	City	State/Country				
Mailing Addr	ess:	2 Orchard Drive, Acton, MA	01720			
	-					
Citizenship	U.S.					

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Date $\eta$ - $Q$	)			Seventh Inventor	Edward R. First Name	Middle (pltial	LaVallie
Residence	Harvard, M	<b>М</b> А	U.S.A	Signat	h -51		aller
Mailing Addr	City ess:	113 Ann L	State/Country ee Road; <u>Harvar</u>	d, MA 01452			
Citizenship	U.S.						
Date				Eighth Inventor	Maurice First Name	Middle Initial	Treacy
Residence	Dun County of		IRELAND	Signati		widdle milai	Last Name
Mailing Addre	City :	38 Clarinda	State/Country a Park East, Dun	Laoghaire, County	Dublin, IRELAND		
Citizenship	IRELAN	D					
Date				Ninth Inventor	Cheryl		Evans
Residence	Germantov City	vn, MD	U.S.A. State/Country	Signate	First Name	Middle Initial	Last Name
Mailing Addre	-	19326 Gold	•	ve, Germantown, M	D 20876		
Citizenship	United Ki	ngdom					
Date				Tenth Inventor	Michael J.		Agostino
10 Residence	Andover, N	MA MA	U.S.A. State/Country	Signatu	First Name	Middle Initial	Last Name
Mailing Addre	ss:	26 Wolcott	Avenue, Andove	er, MA 01810		<i>-</i>	
Citizenship	U.S.						
Date 11	/27/	200/		Eleventh Inventor	Zhijian		Lu
Residence	Bedford, M City	та <i>МА</i>	U.S.A. State/Country	Signatu	First Name	Middle Initial	Last Name
Mailing Addres	ss: <u>.</u>	120 Old Bu	rlington Road, B	edford, MA 01730			

C 11 221	Twelfth Inventor	David	The state of the s	Merhera	
MA U.S.A.	Signat	First Name	- Modele la		
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	State/Country	Signat State/Country  2 Orchard Drive, Acton, MA 01720	First Name Signature  Orchard Drive, Acton, MA 01720	Twelfth Inventor David  First Name - Middle In  State/Country  2 Orchard Drive, Acton, MA 01720	Twelfth Inventor David Merberg  First Name - Middle Initial Last Name  State/Country  2 Orchard Drive, Acton, MA 01720